PCB Antenna for 2.4 GHz Application

Single-Band Antenna with I-PEX Cable Assembly. Pulse Part Number W3525B

Features
- Size WxLxH (10.7 x 47.7 x 0.8 mm)
- For WLAN devices using WiFi (802.11b/g), and other applications in the ISM 2.4GHz band
- Omnidirectional radiation pattern provides broad 360° coverage
- Various cable length from 3.9 to 10 inch (100 to 254 mm)

Connector
- I-PEX

Pansize…………………….20/bag; 500/carton

Dimensions: Inches mm

Unless otherwise specified, all tolerances are +/- 0.10 mm

Electrical specifications @ +25 °C

Note: This part number is lead-free and RoHS compliant. No additional suffix or identifier is required.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency [GHz]</th>
<th>Max Gain [dBi]</th>
<th>Impedance [Ω]</th>
<th>PWB Length (in/mm)</th>
<th>Cable Length (in/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3525B039</td>
<td>2.4</td>
<td>2</td>
<td>50</td>
<td>1.87/47.7</td>
<td>3.9/100</td>
</tr>
<tr>
<td>W3525B100</td>
<td>2.4</td>
<td>2</td>
<td>50</td>
<td>1.87/47.7</td>
<td>10/254</td>
</tr>
</tbody>
</table>

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Typical Free space Radiation Patterns

- **E-Plane 2.4 GHz**
  - 0.66617 dBi

- **E-Plane 2.45 GHz**
  - 0.64337 dBi

- **E-Plane 2.5 GHz**
  - 0.46409 dBi

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Typical Free space Radiation Patterns

H-Plane
2.4 GHz
3.3793 dBi

E-Plane
2.45 GHz
0.64337 dBi

H-Plane
2.45 GHz
3.34708 dBi

Z*: θ (theta) = 0°
X*: φ (phi) = 0°
Y*: θ (theta) = +90°